

Beginning statistics 2 with the Casio fx-82AU PLUS

Setting your calculator to work with scores and frequencies

Turn your calculator on and press MODE then 2 to set the calculator to the statistics mode. Press 1 (1-VAR) to select 1 variable statistics. Now you will see columns for the scores and another for frequencies. If you don't see the two columns press SHIFT SETUP then scroll down to the next screen. Press 3: STAT and turn the frequency column on by pressing 1 for 1: ON.

1. Enter each score in the following table and press \bar{x} after each score. When you have completed the scores move to the frequency column and type the frequencies over each 1. Remember to press the equals key after each entry. When you have finished entering all the scores and frequencies, press AC.

Scores	Frequency
7	15
8	24
9	37
10	16
11	5

Hint!

Don't worry if you type a wrong number. Go back to the wrong number and type over it with the correct number.

- a Press SHIFT 1 then 4 (4: Var). What is the mean, \bar{x} to 2 decimal places? [Press 2 then =.]
- b Press SHIFT 1 then 4 again and record the standard deviation, σ_n to 2 decimal places. [Press 3 then =.]
- c Press SHIFT 1 then 4 to find the sample standard deviation, σ_{n-1} to 2 decimal places. [Press 4 then =.]
- d Press SHIFT 1 then 4 again, then press 1 followed by = to determine the total number of scores, n.

2. Clear the scores then enter the following data into the frequency table.

Scores	Frequency
16	41
17	65
18	23
19	11
20	5

Hint!

The easiest way to clear all the scores is to press MODE 2.

- a Calculate the mean (\bar{x}) of the scores correct to 1 decimal place.
- b What is the standard deviation (σ_n) correct to 2 decimal places?
- c How many scores (n) are there?

Answers

1a 8.71 **b** 1.07 **c** 1.08 **d** 97

2a 17.1 **b** 1.02 **c** 145